

CLAIMS

What is claimed is:

1. A hybrid contact lens comprising:
a central portion including an optical zone;
a peripheral portion surrounding the central portion, the peripheral portion having a first thickness; and
at least two areas of unequal size located on the peripheral portion, with each area having a thickness less than the first thickness.
2. The hybrid contact lens of claim 1, wherein the thickness of the at least two zones is unequal.
3. The hybrid contact lens of claim 1, wherein the central portion is substantially rigid, and the peripheral portion is substantially flexible.
4. The hybrid contact lens of claim 3, wherein the central portion has a diameter that ranges between about 4.0 millimeters to about 12.0 millimeters, and the peripheral portion has an outer diameter that ranges between about 10.0 millimeters to about 18.0 millimeters.
5. The hybrid contact lens of claim 1, wherein the central portion has a diameter that ranges between about 4.0 millimeters to about 12.0 millimeters, and the peripheral portion has an outer diameter that ranges between about 10.0 millimeters to about 18.0 millimeters.

6. The hybrid contact lens of claim 1, further including a junction between the central portion and the peripheral portion, with the junction comprising a substantially V-shaped surface.

7. The hybrid contact lens of claim 1, wherein an angle comprising the substantially V-shaped surface ranges between about 10 degrees to about 170 degrees.

8. The hybrid contact lens of claim 1, wherein the contact lens is constructed to include a prescription obtained from a wavefront aberrometer.

9. The hybrid contact lens of claim 1, wherein the contact lens is constructed to include a prescription for presbyopia.

10. The hybrid contact lens of claim 1, wherein the contact lens is constructed to include a mark for determining a registration error.

11. The hybrid contact lens of claim 10, wherein the mark is selected from a group consisting of: a circumferential mark; a radial mark; at least three marks concentric to a contact lens center and a radial mark; a circumferential mark and a radial mark; a grooved mark; an elevated mark; and a mark having a index of refraction greater than an index of refraction in an adjacent material.

12. The hybrid contact lens of claim 10, wherein the mark is visible with a light selected from a group consisting of: a light having a wavelength ranging from about 700 nanometers to about 400 nanometers; an infrared light; and a ultraviolet light.

13. A hybrid contact lens comprising:

a central portion including an optical zone;

a peripheral portion surrounding the central portion, the peripheral portion having a first thickness; and

at least one area located on the central portion, with the area having a thickness less than the first thickness.

14. The hybrid contact lens of claim 13, wherein the at least one area is structured to accommodate a keratoconus ectasia.

15. The hybrid contact lens of claim 13, wherein the central portion is substantially rigid, and the peripheral portion is substantially flexible.

16. The hybrid contact lens of claim 13, wherein the central portion has a diameter that ranges between about 4.0 millimeters to about 12.0 millimeters, and the peripheral portion has an outer diameter that ranges between about 10.0 millimeters to about 18.0 millimeters.

17. The hybrid contact lens of claim 13, further including a junction between the central portion and the peripheral portion, with the junction comprising a substantially V-shaped surface.

18. The hybrid contact lens of claim 13, wherein an angle comprising the substantially V-shaped surface ranges between about 10 degrees to about 170 degrees.

19. The hybrid contact lens of claim 13, wherein the contact lens is constructed to include a prescription obtained from a wavefront aberrometer.

20. The hybrid contact lens of claim 13, wherein the contact lens is constructed to include a prescription for presbyopia.

21. The hybrid contact lens of claim 13, wherein the contact lens is constructed to include a mark for determining a registration error.

22. The hybrid contact lens of claim 21, wherein the mark is selected from a group consisting of: a circumferential mark; a radial mark; at least three marks concentric to a contact lens center and a radial mark; a circumferential mark and a radial mark; a grooved mark; an elevated mark; and a mark having a index of refraction greater than an index of refraction in an adjacent material.